

ASTD/TDI Project Static Report

Increased Tank Waste Processing through Implementation of Characterization Technology

Focus Area:	Tanks Focus Area	Focus Area Manager: Marcus Glasper, (509) 372-4012
TTP No.:	SR09WT42	Principal Investigator: Terry Phillips, (803) 208-8081
Lead Site:	Savannah River	
Project No.:	99-ASTD-26	Technology Vendor(s)/Commercial Partner(s):
Tech ID/TMS No.:	2100	EIC HiLine Eng. and Fabrication
Related Publication(s): DOE/EM-0442 and 0430		

Web Page(s):

Description: A combined Raman corrosion chemistry and electrical noise (EN) corrosion monitoring probe will be deployed in a SR tank to monitor the tank waste chemistry and corrosion environment. Data from the probe will be used to support tank operations in monitoring conditions to determine need for addition of corrosion inhibitors to support safe waste storage. (Note: This work has been redirected based on changed site priority no longer requiring a suspended solids measurement system from SEA, Inc.).

SEA density and level probe was to be at SRS; however, the decision was made to not use it. Money transferred to the corrosion probe (Raman and EN). EIC is Raman and EN is HiLine Engineering & Fabrication, Inc. (design directed by Lockheed). Two separate technologies originally, but now being integrated into one.

Application: Monitoring corrosion conditions in carbon steel tanks storing corrosive waste materials.

Location(s): Extended Sludge Processing Tanks at SRS

Technology(ies):

Total Suspended Solids Measuring Device (Replaced by Corrosion Monitor)

	Funding (\$K):	<u>FY-98</u>	<u>FY-99</u>	<u>FY-00</u>	<u>FY-01</u>	<u>Total</u>
TTP No.:	SR09WT42	\$0	\$27	\$80	\$0	\$107
Leverage Source:	EM-30					\$107
						<hr style="border-top: 1px solid black;"/>
					Funding Total (\$K):	\$214

Cost Savings (\$M):	<u>Proposal</u>	<u>Deployment Plan/TTP</u>	<u>Current Focus Area Projection</u>
	Pending	Pending	\$424